

| Risk Baseline | | | | | |
|--|---|---|--------------------------------------|--|---|
| Project | | Building 111 - Radiation Oncology Expansion | | Date | |
| Completed By: | | PRA and KJWW | | May 31, 2012 | |
| 95% | | | | | |
| Complete risk analysis as part of the scope of Design Services and to be updated throughout design of project at design programming, schematics, 35% CD's and 95% CD's and precon. | | | | | |
| Areas In Yellow need VA Input | | | | | |
| | Project Risk | Impact (List issue(s) to be addressed) | Probability /Impact H, M, or L | Measures taken to Resolve or Mitigate | Measures in Design/SOW |
| 1 | What utilities are involved and what will utilities affect? | | | | |
| a | Medical Gas | There is no medical gas scope. Some medical gas piping is located in the ceiling space of the area being renovated, included three oxygen valves. After discussions with the VA, 2 of the 3 valves are currently valved off. | Low | Non necessary if contractor is aware and works around. | Identify on drawings to make installers aware. |
| b | Domestic Water | None | N/A | N/A | N/A |
| c | Chilled Water | A new chiller will be supplied by Siemens to provide cooling for the new LinAc. Chilled water will be routed in the sub-basement to the new LinAc. A new FCU will be provided for the Dosimtry room due to high heat loads. If year-round chilled water is available, it can be extended to the new FCU. Otherwise, another method of cooling (i.e. split system, etc.) will be necessary. to provide cooling for the Dosimtry. | M | Shut-downs will occur only for final tie-over. | |
| d | Steam | None | N/A | N/A | N/A |
| e | Power Indicate if CR, LS, Q, or Normal | Normal and Critial electrical services to specific Oncology equipment that is going to be renovated will require an outage during various phases of renovation. Adjacent equipment that will not be renovated may | H | Shut downs can be minimized if scheduled for night and/or weekends. Coordination required with VA Staff. | Notes will be provided on the drawings to make contractor aware of scheduling requirements. |
| f | Fire Alarm | Fire Alarm system within the Oncology area will require minimal shut downs for additions to the system. | Low | Contractor will be required to coordinate scheduling with VA Staff. | Notes will be provided on the drawings to make contractor aware of scheduling requirements. |
| g | Data/Telephone | Minimal. Disruptions and shut-downs will be limited to only those areas within the construction limits. | Low | Non necessary . | |
| h | HVAC | Overhead air from V-9 currently serves the Uniform Issue area. There is insufficient air to provide cooling for the new Dosimtry area due to the high density of computers and people. | | see next column | Provide a air-cooled split system to serve the Dosimtry area. Heat will be rejected to the sub-basement, as there is not a good location close by to reject heat outdoors. Split systems are limited in how far the refrigerant can run. Adding a water-cooled system and dry-cooler was discussed, but the VA would like to avoid the complexity and cost. |
| i | Wireless | none | | | |
| j | Sprinkler System | A fire protection main passes through the area, though it does not need to move. A shut-down of the zone will be necessary to relocate heads. | | Shut downs can be minimized if scheduled for night and/or weekends. Coordination required with VA Staff. | |
| k | Pneumatic Tube | Pneumatic Tube to be powered from Panel EPH-Q-BO4-1 | | | |
| l | | | | | |
| 2 | What type of other outages are anticipated? | Linear accelerators will be taken offline to relocate main disconnects to new locations. This work will need to be done after hours. | | Liquidated damages are included to ensure downtime is minimized | |
| 3 | What are adjacencies to construction? | Linen Distribution | H | | |

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| 4 | Is the project close enough or operations disruptive enough to affect critical/sensitive areas of operation in the hospital, (ICU, Cath Lab, OR, Pain Clinic, ER, Imaging, Dialysis, Audiology, Oncology, Lab, etc | None | NA | | |
| 5 | Where will ancillary work be located? | Block Room temporarily in Room B0239 | H | | |
| 6 | Will/How ancillary work affect patient Care? | None | NA | | |
| 7 | Are there moves to patients or staff involved? | | NA | | |
| a | Will they affect start of project? | | NA | | |
| b | If patient services are affected how will this be handled? | | NA | | |
| c | Will staff correspondence need to be changed due to relocations or renovations? | | | | |
| 8 | Patient Safety issues? Addressed? | Temporary patient traffic through construction | H | Contractor to work on off hours | Indicated on Phasing and Infection Control Plans |
| 9 | What are the hours of work for main project area? | 7am to 5pm, 8:00PM-6:00AM | H | Contractor to work on off hours | Indicated on Phasing and Infection Control Plans |
| 10 | What are the hours of work for the ancillary areas? | 7am to 5pm, 8:00PM-6:00AM | H | Contractor to work on off hours | Indicated on Phasing and Infection Control Plans |
| 11 | Is way finder signage required? Is replacement of exiting signs required? New rooms signs? | Yes. Temporary signage to indicate temporary waiting rooms | | Temporary signage to indicate temporary waiting rooms | |
| 12 | What is the FCP for the project and FY. | 6985 | | | |
| 13 | Where do you get funds for changes? | Prior year funds | | | |
| 14 | Has the time table been verified by the contractor (CPM)? | | | | |
| 15 | Weather, need to verify seasonal schedule and working conditions. | | NA | | |
| 16 | Energy, Focus on Energy: Part of the design; equipment and materials – timeliness and impacts to schedule. | | NA | | |
| 17 | Staging | | | | |
| a | Large pieces of equipment and sections of AHU both new and demo, where will they be staged? | Required | | Staging will occur outside the Engineering Entrance on the Basement level, east side of the building | |
| b | Job trailer required? | | NA | | |
| 18 | Security | | | | |
| a | Jobsite security - electronic badge, key | Required | | Indicated on drawings | |
| b | Special contractor access required - separate key in SAMS box, badges, | Required | | | |
| c | Off hours access | Required | | Through badge access and SAM Box | |
| 19 | Fire Safety Review | Completed | | Date to FP&C - _____ Comments Received - 5/18/12 | |
| 20 | ISO Appendix A | Completed | | Project Manager to fill out and submit to Contracting | |
| 21 | Will there be demolition/construction waste? (all waste must be diverted from landfill and recycled whenever possible) | Yes. | | Contractor to use appropriate waste receptacle | |
| 22 | Will there be space needed for waste collection/recycling segregation? | No | | Existing waste receptacles will be used. Contractor must use appropriate receptacle | |

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| 23 | AE - Submittal Log | Contractor Create Log, A/E Review Contractor Determine Submittal's required before work can start, A/E review Contractor Determine submittal review time required before work can start, A/E Review | H | | Required in Specification |
| 24 | NTP - Submittal Log | Contractor - Verify Log Contractor - Verify at Precon Submittal's required before work can start and long lead time materials Contractor - Determine Work Start Date and provide notification of work start date and area based on submittal review time | H | | |
| 25 | AE - Heat Detectors in Construction Space | Heat detectors are not necessary for the final design, and thus will not be incorporated into the construction documents. | low | For temporary detection during construction, the AE plans will require the contractor to provide temporary detection during project phasing. Given the size/scale of the project, a layout is not necessary from the AE team. | |
| 26 | Construction Personnel are oriented to the following: • Need ID Badge • Safety, emergency response • HIPPA, privacy rights • Infection control • ILSM criteria | | | | |